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Sep 25, 2001

DERWENT-ACC-NO: 1998-390324

DERWENT-WEEK: 200158

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TITLE: Composite sheets for panels - are produced from webs of filaments with two different melting points to be heat bonded and compressed

INVENTOR: DEBALME, J; LOUBINOX, D ; SAINT-JOHN, C ; VOIRON, J ; DEBALME, J P ; SAINT, J C

PATENT-ASSIGNEE: VETROTEX FRANCE SA (COMP)

PRIORITY-DATA: 1997FR-0000387 (January 16, 1997), 1998CZ-0002090 (June 30, 1998), 1998JP-0179356 (June 25, 1998), 1998KR-0024266 (June 26, 1998)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6294036 B1	September 25, 2001		000	D01D005/08
FR 2758340 A1	July 17, 1998		027	D04H001/54
WO 9831857 A1	July 23, 1998	F	035	D04H001/54
NO 9804275 A	November 5, 1998		000	D04H001/54
EP 888471 A1	January 7, 1999	F	000	D04H001/54
CZ 9802090 A3	January 12, 2000		000	B32B031/26
JP 2000015726 A	January 18, 2000		010	B32B005/02
KR 2000003135 A	January 15, 2000		000	B32B017/04

DESIGNATED-STATES: CA NO US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BE CH DE DK FR GB LI NL SE

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6294036B1	January 14, 1998	1998WO-FR00067	
US 6294036B1	September 15, 1999	1999US-0147038	
US 6294036B1		WO 9831857	Based on
FR 2758340A1	January 16, 1997	1997FR-0000387	
WO 9831857A1	January 14, 1998	1998WO-FR00067	
NO 9804275A	January 14, 1998	1998WO-FR00067	
NO 9804275A	September 15, 1998	1998NO-0004275	
EP 888471A1	January 14, 1998	1998EP-0903064	
EP 888471A1	January 14, 1998	1998WO-FR00067	
EP 888471A1		WO 9831857	Based on
CZ 9802090A3	June 30, 1998	1998CZ-0002090	
JP2000015726A	June 25, 1998	1998JP-0179356	
KR2000003135A	June 26, 1998	1998KR-0024266	

INT-CL (IPC): B29 C 70/42; B32 B 5/02; B32 B 5/16; B32 B 5/26; B32 B 17/02; B32 B 17/04; B32 B 31/20; B32 B 31/26; D01 D 5/08; D04 H 1/54; D04 H 3/14; D04 H 5/06; D04 H 13/00; D06 M 23/14

ABSTRACTED-PUB-NO: FR 2758340A  
BASIC-ABSTRACT:

Production of composite sheets for panels involves using at least one fabric of filaments in at least two materials with different melting points in a zone where they are heated to a temp. between their melting points and below the degradation temp. of the material with the lower melting point. The material is passed round a rotating bar, heated to this temp., and then it is compressed and cooled into a composite web. The web is converted into one or more composite sheets.

Also claimed is an assembly to produce the material, with one or more fabric feed and at least one heater and at least one heated rotating bar in the fabric movement path. At least one press compresses the material, followed by a cooling station.

The fabric contains at least 50 wt.% of co-mixed filaments using glass filaments and organic thermoplastic filaments, such as polyethylene terephthalate (PET), in an intimate mix. The material is used as a fabric.

At least one second and similar fabric is fed in continuously, and heated by rollers like the first,, and both fabrics are pressed together to be compressed simultaneously to form the composite web.

ADVANTAGE - The sheet material shows no distortion in the alignment of the filaments used in the material.

ABSTRACTED-PUB-NO: US 6294036B  
EQUIVALENT-ABSTRACTS:

Production of composite sheets for panels involves using at least one fabric of filaments in at least two materials with different melting points in a zone where they are heated to a temp. between their melting points and below the degradation temp. of the material with the lower melting point. The material is passed round a rotating bar, heated to this temp., and then it is compressed and cooled into a composite web. The web is converted into one or more composite sheets.

Also claimed is an assembly to produce the material, with one or more fabric feed and at least one heater and at least one heated rotating bar in the fabric movement path. At least one press compresses the material, followed by a cooling station.

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ADVANTAGE - The sheet material shows no distortion in the alignment of the filaments used in the material.

CHOSEN-DRAWING: Dwg.0/6

DERWENT-CLASS: A32 F04 P73  
CPI-CODES: A11-B09C; A12-S08E; A12-S08F; F03-D; F03-D04; A12-S05G; F02-C01A;